YNK-DBR No.....
Date.....

AEE, YSTSD
SBR No: 15/22-23.
Date: 13/3/2023.

Original / Duplicate / Triplicate

# CONTRACT CERTIFICATE

(For Other Works)

No. Second and Part bill
Division : Yelahanka Division
Estimate Cost (Rs.) :- 2135.00 Lakhs

Date.....20.....
Sub-Division : Yelahanka Sub Division

Bill Received No .....Dated.....Cash Book Voucher No.....dated.....
Scheduled Docket No:
Head of Account : P- 3877 D.R. No:

Name of Work (as per sanctioned estimate):- Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)

Job Code: 003-23-000004

Name of Contractor and Full Address: **Sri.K.Venkataraju,**

Reference to Agreement No /Wo No: BBMP/EE/YNK.D/EPMT-06/AG/31/2022-23 dt: 2-9-22

Certified that the measurements were taken by me on 06/02/2023 and recorded of Pages No 585567 to 585577
Of measurement Book No : 5856 and that the work is satisfactorily executed.

**Signature of Contractor**

**Officer-in-charge of work**

Certified that the measurements were taken by me on 06/02/2023 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

If Memorandum of Payment

Sub-Division Officer
ಸಹಾಯಕ ಅಭಿಯಂತರರು/ಕಿರಿಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ ಉಪವಿಭಾಗ
ಜ.ಬ.ಎಂ.ಕ. ಬೆಂಗಳೂರು-10

| | | |
|---|---|---|
| 1) | Total value of work done or supplies made as per account within | Gross Amt =Rs 45497000=00 |
| 2) | Deduct amount to be held in reserve being.....percent Rs..... | FSD =Rs — |
| 3) | Balance | SD/EMD =Rs 406223=00 |
| 4) | Deduct Payment : | DCST =Rs 406223=00 |
| | a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D No..... | IT =Rs 454970=00 |
| | Amount adjusted towards cash advance recovery of | 454970=00 |
| | b) Payments cost store or other materials supplied. | CESS =Rs 45497=00 |
| | Now made recovery of amount creditable to this/other work Amount paid on this bill Cheque/Cash | Royalty =Rs 63845=00 |
| 5) | Balance being unpaid value of work done held in reserve | T.D. =Rs 183148=00 |
| 6) | Deduct cash advance made on the office Cash Book Voucher No..... date .....less adjustments | Net Amt=Rs 43665552=00 |
| 7) | Net amount due to or from contractor Unadjusted items | |
| 8) | Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied | |

**Contractor's Signature**

Received Rs... .....(in works)
.....

By Cash and by adjustment of Payment as per memorandum.

(For use in the Office)

Witnesses:
1.
2.
Dated.....

**Signature of Contractor**

Audited & Admitted for Rs. 45497000=00

Paid by me by cheque No..... Dated.....
Cash Rs..... Dated.....
Initials of Officer Making Payment

43665552:00 Executive Engineer by Cheque
and Rs. 183148:00 by adjustment

Accts. Supdt.
Yelahanka Division
BBMP

Exe. Engineer
Yelahanka Division
BBMP

## SECOND AND PART BILL

**Name of work:-Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)**

## ABSTRACT

| | |
|---|---|
| **Work order No :-** | **BBMP/EE/YNK.D/EPMT-06/AG/31/2022-23** **Date:-** |
| **Estimate Cost :-** | **2135.00 Lakhs** |

| Sl. No | Description of work | Unit | Aproved Schedule B | | | Previous bill | | Present Bill | | | Total Upto date | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Rate | Cost | Qty | Cost | Qty. | Rate | Cost | Qty. | Cost |
| 1 | Removing and Resetting of Footpath Slab and pointing in C.M (1:3) (Approved Rate) | Sqm | 6357.46 | 259.93 | 1652516.08 | 0.00 | 0.00 | 5942.79 | 259.93 | 1544729.51 | 5942.79 | 1544729.51 |
| 2 | Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such similar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) (V-I.No 1.4.Page No-5 PWD SR 2021-22) | Cum | 12902.39 | 336.25 | 4338483.45 | 3423.99 | 1151330.34 | 2287.02 | 336.25 | 769020.53 | 5711.01 | 1920350.87 |
| 3 | Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22) | Cum | 1911.91 | 6362.29 | 12164125.87 | 773.32 | 4920111.55 | 78.74 | 6362.29 | 500953.99 | 852.06 | 5421065.54 |

| Sl No | Description of work | Unit | Aproved Schedule B | | | Previous bill | | Present Bill | | | Total Upto date | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Rate | Cost | Qty | Cost | Qty. | Rate | Cost | Qty. | Cost |
| 4 | KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 550( P-229/28.8.3) PWD SR 2018-19 | Tonne | 138.66 | 114292.20 | 15847756.45 | 61.95 | 7080467.98 | 9.50 | 114292.20 | 1085369.57 | 71.45 | 8165837.55 |
| 5 | Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2 of PWD SR 2021-22) | Cum | 2227.93 | 7265.75 | 16187574.37 | 960.67 | 6979960.98 | 150.46 | 7265.75 | 1093196.94 | 1111.13 | 8073157.91 |
| 6 | Providing and fixing precast reinforced cement concrete covering slabs of 10Cm thick made of M20 with OPC cement,with 20mm and down size graded granite metal coarse aggregate @0.70 mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work | Sqm | 7431.83 | 2083.49 | 15484137.84 | 2360.34 | 4917742.99 | 1416.42 | 2083.49 | 2951095.83 | 3776.76 | 7868838.82 |
| 7 | Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate) | Sqm | 414.30 | 5064.93 | 2098400.50 | 106.92 | 541542.32 | 0.00 | 5064.93 | 0.00 | 106.92 | 541542.32 |

| Sl. No | Description of work | Unit | Aproved Schedule B | | | Previous bill | | Present Bill | | | Total Upto date | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Rate | Cost | Qty | Cost | Qty. | Rate | Cost | Qty. | Cost |
| 8 | Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates (V-I, No-2.1.4, P.No-15 of PWD SR 2021-22). | Cum | 230.72 | 6554.75 | 1512310.91 | 49.29 | 323057.19 | 11.50 | 6554.75 | 75405.79 | 60.79 | 398462.99 |
| 9 | Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete as directed by the Engineer in Charge of the work (Approved Rate) | Nos | 17472.00 | 509.81 | 8907423.30 | 5476.22 | 2791840.05 | 1525.33 | 509.81 | 777632.19 | 7001.56 | 3569472.24 |
| 11 | Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work ((V-I, P.No-8, I No-1.12 of PWD SR 2021-22) | Cum | 8088.12 | 71.90 | 581507.26 | 139.67 | 10041.89 | 2142.55 | 71.90 | 154041.78 | 2282.22 | 164083.66 |
| 12 | Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 (V-III, I No-4.1V,P No-19,KPWD SR 2021-22) | Cum | 4243.82 | 2596.02 | 11017022.61 | 139.67 | 362589.38 | 1285.64 | 2596.02 | 3337528.42 | 1425.31 | 3700117.80 |

| Sl. No | Description of work | Unit | Aproved Schedule B | | | Previous bill | | Present Bill | | | Total Upto date | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Rate | Cost | Qty | Cost | Qty. | Rate | Cost | Qty. | Cost |
| 13 | Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density (V-III, P No-24.I No-4.27A)of PWD SR 2021-22). | Cum | 5609.00 | 2648.00 | 14852644.36 | 0.00 | 0.00 | 1969.28 | 2648.00 | 5214665.72 | 1969.28 | 5214665.72 |
| 14 | Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (V-III, P No-29.I No-5.1(i) of PWD SR 2021-22). | Sqm | 31872.27 | 48.67 | 1551171.68 | 0.00 | 0.00 | 8549.69 | 48.67 | 416099.30 | 8549.69 | 416099.30 |
| 15 | Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom (V-III, P.No-29.I No-5.3(i) of PWD SR 2021-22). | Sqm | 76765.61 | 13.27 | 1018938.11 | 0.00 | 0.00 | 23606.94 | 13.27 | 313339.53 | 23606.94 | 313339.53 |
| 16 | Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects. (V-III, P.No-33.I No-5.12C of PWD SR 2021-22). | Cum | 2041.07 | 10938.22 | 22325668.52 | 0.00 | 0.00 | 442.52 | 10938.22 | 4840325.52 | 442.52 | 4840325.52 |
| 17 | Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (V-III, P.No.36, I.No.5.16C of PWD SR 2021-22). | Cum | 2501.23 | 12754.44 | 31901787.96 | 0.00 | 0.00 | 982.70 | 12754.44 | 12533848.13 | 982.70 | 12533848.13 |

| Sl. No | Description of work | Unit | Aproved Schedule B | | | Previous bill | | Present Bill | | | Total Upto date | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Rate | Cost | Qty | Cost | Qty. | Rate | Cost | Qty. | Cost |
| 18 | Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes (V-III,I No-8.15, P.No-57 of KPWD SR 2021-22) | Sqm | 2411.70 | 528.72 | 1275103.32 | 0.00 | 0.00 | 1061.58 | 528.72 | 561273.87 | 1061.58 | 561273.87 |
| 22 | Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed ( average thickness ) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications. (V-I No 9.31 Page No-64 PWD SR 2021-22) | Sqm | 5044.85 | 1202.33 | 6065575.29 | 237.69 | 285781.85 | 1025.12 | 1202.33 | 1232526.68 | 1262.81 | 1518308.53 |
| 23 | Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (V-III Page No.3, Item No.1.4 A of PWD SR 2021-22) | t.Km | 27704.65 | 106.19 | 2941833.55 | 0.00 | 0.00 | 10891.03 | 106.19 | 1156469.67 | 10891.03 | 1156469.67 |
| 24 | Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work Depth exceeding 1.5 m, but not exceeding 3 (V-I Page No.8, Item No.1.15.2 of PWD SR 2021-22) | Cum | 350.33 | 353.95 | 123999.95 | 252.76 | 89465.04 | 0.00 | 353.95 | 0.00 | 252.76 | 89465.04 |
| 25 | Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-I Page No.15, Item No.2.2.2.1 of PWD SR 2021-22) | Cum | 83.21 | 7647.02 | 636308.44 | 42.31 | 323528.39 | 0.00 | 7647.02 | 0.00 | 42.31 | 323528.39 |

| Sl. No | Description of work | Unit | Aproved Schedule B | | | Previous bill | | Present Bill | | | Total Upto date | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Rate | Cost | Qty | Cost | Qty. | Rate | Cost | Qty. | Cost |
| 26 | Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately)M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-I Page No.17, Item No.2.5.1 of PWD SR 2021-22) | Cum | 70.46 | 7873.33 | 554754.61 | 9.88 | 77756.98 | 0.00 | 7873.33 | 0.00 | 9.88 | 77756.98 |
| 27 | Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6(1 cement : 6 coarse sand) (V-II Page No.9, Item No.5.4 of PWD SR 2021-22) | Cum | 123.31 | 5997.27 | 739523.55 | 101.68 | 609778.58 | 0.00 | 5997.27 | 0.00 | 101.68 | 609778.58 |
| 28 | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m (V-I Page No.7, Item No.1.9 of PWD SR 2021-22) | Cum | 480.90 | 225.64 | 108512.34 | 316.60 | 71438.08 | 0.00 | 225.64 | 0.00 | 316.60 | 71438.08 |
| 29 | Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) (V-II Page No.11.32, Item No.84 of PWD SR 2021-22) | Kgs | 16974.33 | 117.25 | 1990181.58 | 5071.88 | 594660.59 | 0.00 | 117.25 | 0.00 | 5071.88 | 594660.59 |
| 30 | Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (V-II Page No.17, Item No.6.32 of PWD SR 2021-22) | Sqm | 557.06 | 1329.53 | 740628.87 | 238.79 | 317484.17 | 0.00 | 1329.53 | 0.00 | 238.79 | 317484.17 |

| Sl. No | Description of work | Unit | Aproved Schedule B | | | Previous bill | | Present Bill | | | Total Upto date | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Rate | Cost | Qty | Cost | Qty. | Rate | Cost | Qty. | Cost |
| 31 | Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.(V-II Page No.17, Item No.6.34 of PWD SR 2021-22) | Sqm | 24.45 | 1046.37 | 25583.75 | 23.94 | 25050.10 | 0.00 | 1046.37 | 0.00 | 23.94 | 25050.10 |
| | | | | SUB TOTAL | 187533695.86 | | 31473628.46 | | | 38557522.96 | | 70031151.42 |
| | | | | GST 18% | 33756065.25 | | 5665253.12 | | | 6940354.13 | | 12605607.00 |
| | | | | GRAND TOTAL | 221289761.11 | | 37138881.58 | | | 45497877.10 | | 82636758.42 |

Certificate

1 The above work has been Completed satisfactorily
2 The debris has been removed and disposed from the work spot.
3 No. departmental issues are made to the contractor

Contractor

Assistant Engineer
Yelahanka Division

NINE TECH INFRA SOLUTIONS PVT. LTD. Bangalore 560 064

Project Management Consultants

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲನಾ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Assistant Engineer
Yelahanka Division